# triphenyl amine

| CAS number: | 603-34-9 |
| --- | --- |
| Synonyms: | Benzenamine, N,N-diphenyl-, *N*,*N*-diphenylaniline |
| Chemical formula: | C18H15N |
| Structural formula: | — |

Workplace exposure standard (interim)

| TWA: | **5 mg/m3** |
| --- | --- |
| STEL: | **—** |
| Peak limitation: | **—** |
| Notations: | **—** |
| IDLH: | **—** |
| Sampling and analysis: The recommended value is quantifiable through available sampling and analysis techniques. | |

## Recommendation and basis for workplace exposure standard

A TWA of 5 mg/m3 is recommended to be retained in the interim to protect for irritation of eyes and skin in exposed workers.

A review of the available information is recommended at the next scheduled review.

## Discussion and conclusions

Triphenyl amine is used as a photoconductor and in film manufacturing.

Critical effects of exposure include skin and eye irritation (ECHA, 2020).

No reports or data are available in sources. Insufficient data is available to perform a full assessment. A review of the additional sources is recommended at the next scheduled review.

## Recommendation for notations

Not classified as a carcinogen according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Not classified as a skin sensitiser or respiratory sensitiser according to the GHS.

There are insufficient data to recommend a skin notation.

# Appendix

### Primary sources with reports

| Source Year set Standard |
| --- |
| SWA 1991 TWA: 5 mg/m3 | |
| Based on recommendation from ACGIH 1991. |
| ACGIH NA NA |
| No report.  Documentation and adopted TLV-TWA of 5 mg/m3 withdrawn due to insufficient data in 2008. |
| DFG NA NA |
| No report. |
| SCOEL NA NA |
| No report. |
| OARS/AIHA NA NA |
| No report. |
| HCOTN NA NA |
| No report. |

### Secondary source reports relied upon

NIL.

### Carcinogenicity — non-threshold based genotoxic carcinogens

| Is the chemical mutagenic? | Insufficient data |
| --- | --- |
| Is the chemical carcinogenic with a mutagenic mechanism of action? | Insufficient data |
| **Insufficient data are available to determine if the chemical is a non-threshold based genotoxic carcinogen.** |  |

## Notations

| Source | Notations |
| --- | --- |
| SWA | NA |
| HCIS | NA |
| NICNAS | NA |
| EU Annex | NA |
| ECHA | — |
| ACGIH | NA |
| DFG | NA |
| SCOEL | NA |
| HCOTN | NA |
| IARC | NA |
| US NIOSH | NA |

NA = not applicable (a recommendation has not been made by this Agency); — = the Agency has assessed available data for this chemical but has not recommended any notations

### Skin notation assessment

Insufficient evidence to recommend a skin notation.

### IDLH

| Is there a suitable IDLH value available? | No |
| --- | --- |

## Additional information

| Molecular weight: | 245.3 |
| --- | --- |
| Conversion factors at 25°C and 101.3 kPa: | 1 ppm = 10.03 mg/m3; 1 mg/m3 = 0.1 ppm |
| This chemical is used as a pesticide: |  |
| This chemical is a biological product: |  |
| This chemical is a by-product of a process: |  |
| A biological exposure index has been recommended by these agencies: | ACGIH  DFG  SCOEL |

## Workplace exposure standard history

| Year | Standard |
| --- | --- |
| Click here to enter year |  |

## References

European Chemicals Agency (ECHA) (2020) Triphenyl amine – REACH assessment.